

Delete the third full paragraph at page 13, line 8, and insert the following:

--FIGURES 13B-13J. Nucleotide sequence for pICAST OMN.--

IN THE CLAIMS

Please amend the claims as follows:

C5 14. (Twice Amended) A method according to Claim 10, wherein the cell expresses a β -adrenergic receptor.

19. (Amended) A method of screening a cell for the presence of a G-protein-coupled receptor (GPCR) responsive to a GPCR ligand, comprising:

C6 a) providing a cell that expresses a first protein partner as a fusion protein to one mutant form of reporter enzyme and a second protein partner as a fusion protein to a complementary mutant form of the enzyme, wherein the first and second protein partners interact downstream in the GPCR pathway;

b) exposing the cell to a GPCR ligand; and

c) detecting enzymatic activity of the reporter enzyme;

wherein an increase or decrease in enzymatic activity after exposure of the cell to the GPCR ligand indicates that the cell contains a GPCR responsive to said ligand.

C7 20. (Twice Amended) A method of screening a plurality of cells for those cells which contain a G-protein-coupled receptor (GPCR) responsive to a GPCR ligand, the method comprising:

a) providing a plurality of cells that express the GPCR as a fusion protein to a first mutant form of reporter enzyme and a binding partner of the GPCR as a fusion protein to a second mutant form of the enzyme complementary to the first mutant form of the enzyme;

b) exposing the cells to a GPCR ligand; and

c7
c) detecting enzymatic activity of the reporter enzyme;

wherein an increase or decrease in enzymatic activity after exposure of the cell to the GPCR ligand indicates that the cell contains a GPCR responsive to the ligand.

c8
27. (Amended) A method of detecting G-protein-coupled receptor (GPCR) pathway activity in a cell expressing at least one GPCR and containing a first protein partner as a fusion protein to one mutant form of reporter enzyme and a second protein partner as a fusion protein to a complementary mutant form of the enzyme, wherein the first and second protein partners interact downstream in the GPCR pathway and wherein activity of said enzyme indicates activation of the GPCR pathway.

Please add new claims as follows:

-- 31. (New) The method of Claim 20, wherein enzyme activity is detected in a mixture of the plurality of cells.

32. (New) The method of Claim 20, further comprising isolating clones of individual cells, wherein enzyme activity is detected in the clones of individual cells.

33. (New) The method of Claim 20, wherein the binding partner is a cellular component that directly or indirectly modulates GPCR activation or inactivation.

34. (New) The method of Claim 20, wherein the binding partner is an arrestin.

35. (New) The method of Claim 20, wherein the plurality of cells express multiple GPCRs, each as a fusion protein to the first mutant form of reporter enzyme.

36. (New) The method of Claim 10, wherein the cell endogenously expresses multiple G-protein-coupled receptors.
